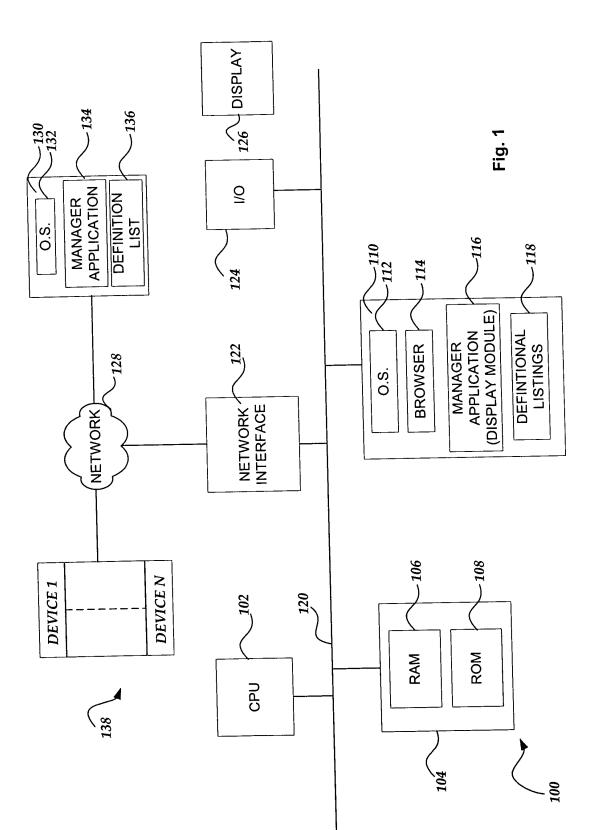
Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 1 of 37

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Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 2 of 37

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Acme Router & Rocket, Inc.	ç									
Network	₽	Parent	Address Type	Allocation Type & Order	Aggre- gate	Lending Limits	Reuse Interval	Description	Address Blocks	Block Status
🖂 (4) Acme	~	0	IPv4	Rated Fit Low	≻		0	Acme Routers & Rockets	92.168.120.144 /28	Free Free Connoction
					210	230		340	192.168.120.224./30 192.168.120.228/30 192.168.120.232 /29 192.168.120.232 /29	Connection Free Delegated
. (4) Accounting	e	~	IPv4	Utilization Fit Low	≻	None	0	Accounting Dept.	192.168.120.136 /29 192.168.120.136 /29	Connection Free
E MA Encineering	4	<del></del>	IPv4	Utilization Fit Low	≻	None	0	Engineering Dept.	192.168.120.64 /26	Connection
	5	4	IPv4	Utilization Fit Low	z	None	0	Lab Area	10.10.10.0 /24	Allocated
El 20) Headquarters	7	-	IPv4	Utilization Fit Low	≻	None	0	Acme headquarters	192.168.120.0 /26	Connection
日 日 一 込 ) Manufacturing	თ	<del>~</del>	IPv4	Utilization Fit Low	≻	None	0	Manufacturing Dept.		
M) Assembly Line	10	6	IPv4	Utilization Fit Low	≻	None	0	Assembly Line		
日 (月) (月) Sales	Q	~	IPv4	Rated Fit Low	≻	128 - 127	0	Sales Dept.	192.168.120.160/29 192.168.120.168/31 192.168.120.170/31 192.168.120.172/30	Connection Connection Free Connection
(4) Sales East	7	g	IPv4	Utilization Fit Low	≻	None	0	Eastern Sales office	192.168.120.176/29 192.168.120.184/29	Connection Free
(4) Sales West	Ø	Q	IPv4	Utilization Fit Low	≻	None	0	Western Sales Region	192.168.120.192 /29 192.168.120.200 /29	Connection Free

## Fig 2

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 3 of 37

72.656% Used Total %Utilization 62.5% 50% 50% 100% 100% 100% 50% 16 16 48 256 00 16 64 0 256 16 64 64 ω ω 30 00 0 4 256 64 186 64 ω Addresses 20 Local Local Agg. Local Agg Agg. 192.168.120.192 /28 192.168.120.176 /28 192.168.120.160 /27 192.168.120.192 /28 192.168.120.128 /28 192.168.120.64 /26 192.168.120.0 /26 192.168.120.0 /24 Aggregate with Descendants 10.10.10.0 /24 192.168.120.192 /28 192.168.120.176 /28 192.168.120.160 /28 192.168.120.144/28 192.168.120.208/28 192.168.120.224/27 192.168.120.128 /28 192.168.120.64 /26 192.168.120.0 /26 Aggregate Blocks 10.10.10.0 /24 Connection Free Connection Free Connection Connection Connection Connection Free Connection Free Free Connection Free Free Delegated Connection Allocated Free Status Size 256 ထထ 2 ထထ 64 8024 4 8 9 16 ထထ 192.168.120.160/29 192.168.120.168/30 192.168.120.170/30 192.168.120.172/30 192.168.120.176 /29 192.168.120.184 /29 192.168.120.192 /29 192.168.120.200 /29 192.168.120.144/28 192.168.120.208/28 192.168.120.224/30 192.168.120.228/30 192.168.120.232/29 192.168.120.232/29 192.168.120.128 /29 192.168.120.136 /29 192.168.120.64 /26 192.168.120.0 /26 Address Blocks 10.10.10.0 /24 4) Assembly Line (4) Sales West (4) Sales East 4) Manufacturing 日 (4) Headquarters Engineering (4) Accounting (4) LAB E (4) Sales 🖻 🚺 Acme Network O

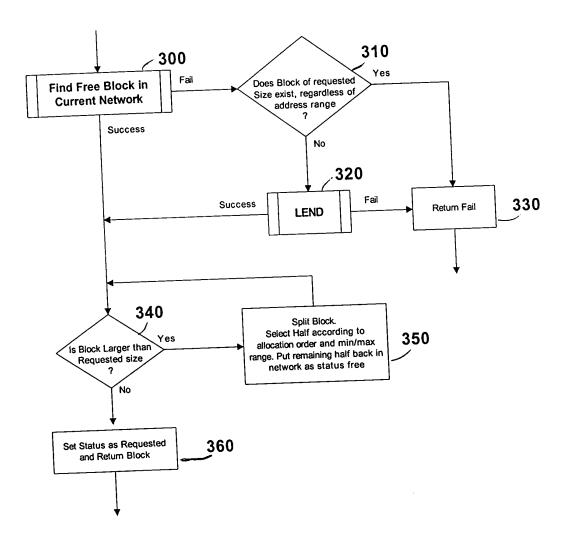
Acme Router & Rocket, Inc.

Fig 2A

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun, John L. Lee, Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 4 of 37

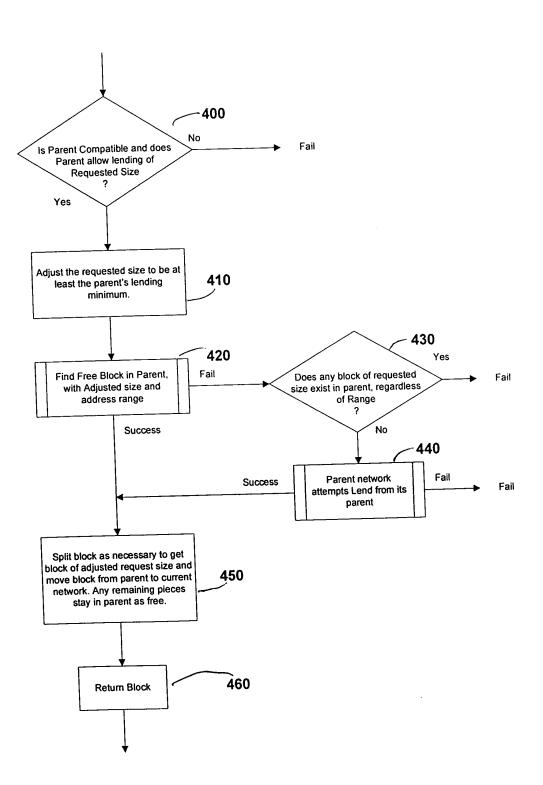
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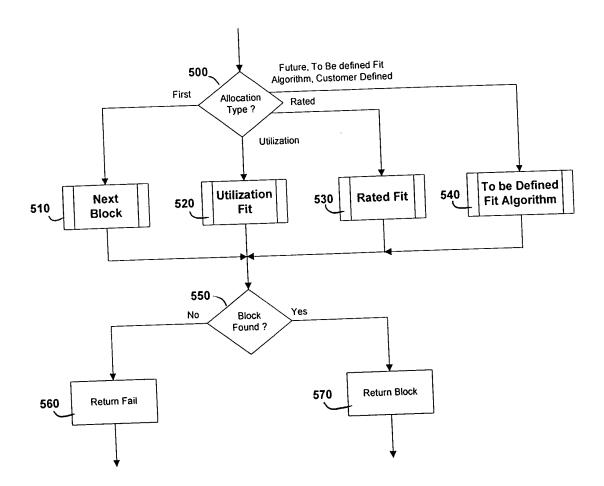
Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee, Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 5 of 37



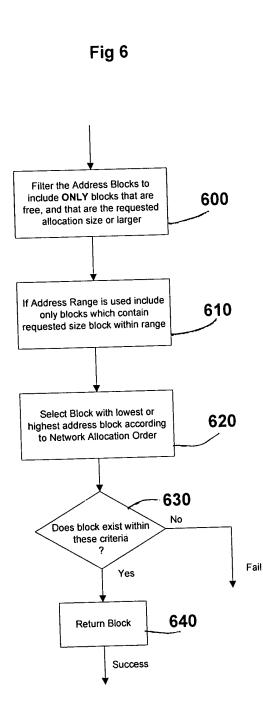


Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee, Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeranie J. Keys. Esq. Phone No.: 404.954.5040 Sheet 6 of 37



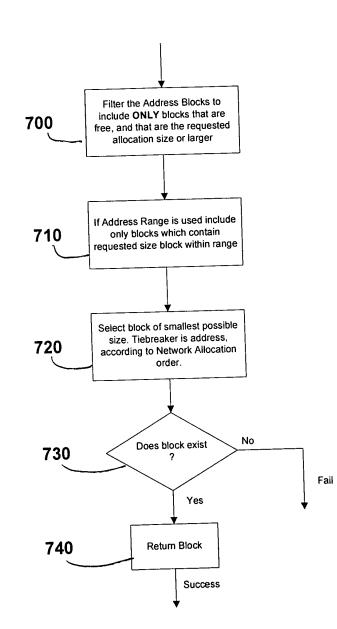


Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 7 of 37

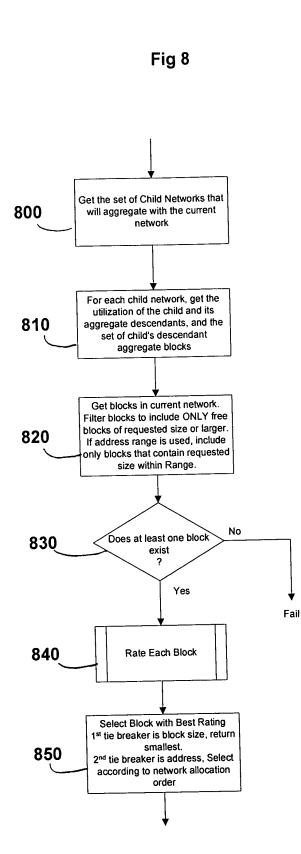


Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 8 of 37





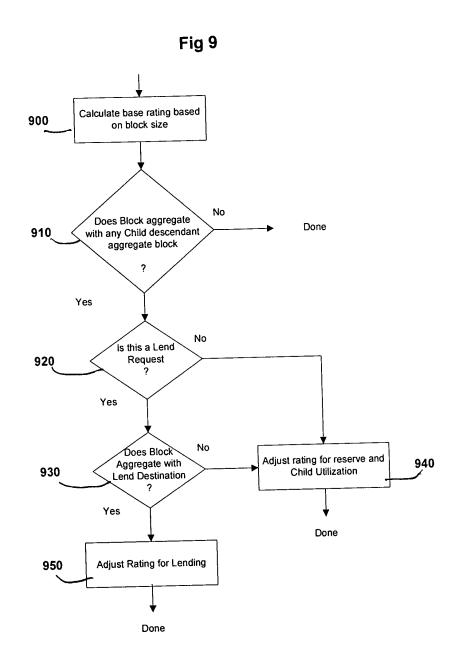
Inventor: Dennis J. Boylan: Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 9 of 37



Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun, John L. Lee, Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jerannie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 10 of 37

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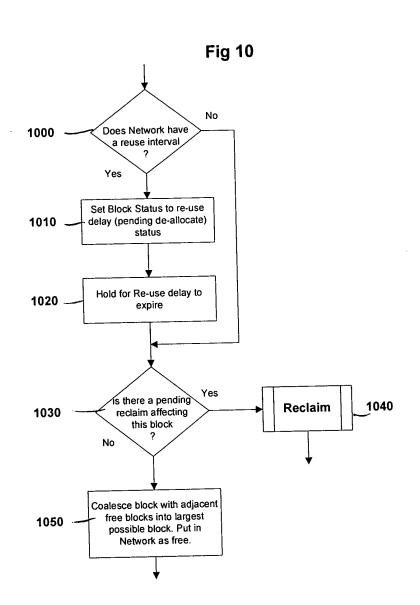
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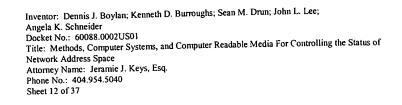


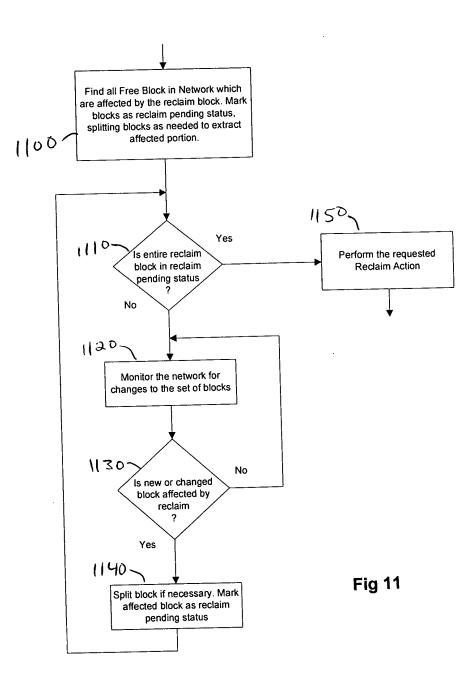
Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 11 of 37

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Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 13 of 37

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Architecture Devices Ranges Reports Logout Help	Add device
- (gr ACME Corp 1268 1233 + 31 Acme - 31 Merchant 21 Merchant 23 Merchant 24 JAN office - 30. Care - 30. Care - 31 All office - 30. Care - 31 All office - 31 All office - 32 Acme - 32 Accme -	Motorola     Routers R Us     Acme     Template Manfucturer Model Description <u>Single Port</u> Acme SinglePort A device with one port <u>FusIPort</u> Acme DualPort A device with two ports     Cisco     Custom
View   Add   <u>Modify</u>   <u>Delete</u>   <u>Summary</u>   <u>Orphan</u>   Devices in network Atl office	
Name Created Modified # Int Description PC1 08/15/2003 08/15/2003 1	
PC2 08/15/2003 08/15/2003 1	
<u>PC4</u> 08/15/2003 08/15/2003 1	
PC3 08/15/2003 08/15/2003 1	
PC5 08/15/2003 08/15/2003 1	
Max Records to display: Update	
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Fig 12

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 14 of 37

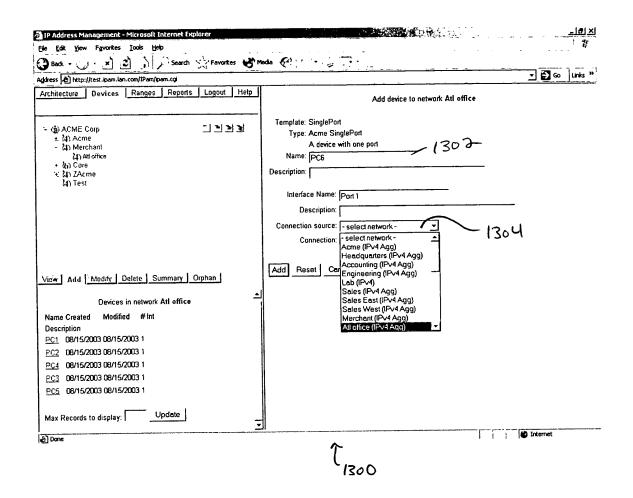


Fig 13

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods. Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 15 of 37

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Visw Add Modify Delete Summary Orphan	Add Reset Car(new) 1402	
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PC4 08/15/2003 08/15/2003 1		
PC3 08/15/2003 08/15/2003 1		
PC5 08/15/2003 08/15/2003 1		
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Fig 14

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 16 of 37

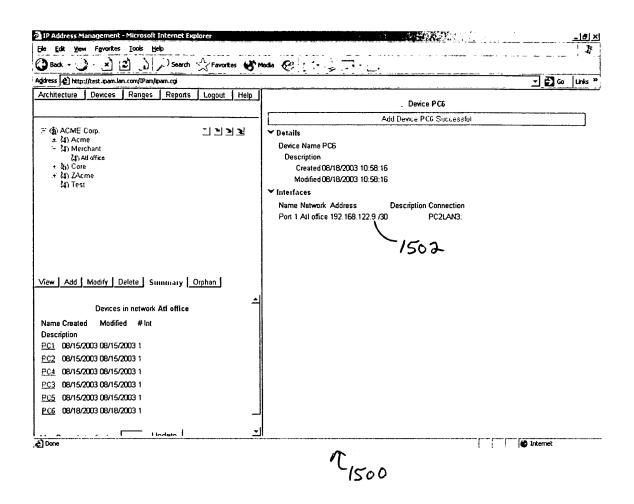


Fig 15

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 17 of 37

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dress 🔁 http://test.ipam.tan.com/IPam/ipam.cgi	
rchilecture Devices Ranges Reports Logout Help	Add device to network Atl office
- (g) ACME Corp + (g) Acme - (g) Merchant (g) Audrice + (g) Core + (g) Zacme (g) Test // Test	Template: SinglePort Type: Acme SinglePort A device with one port Name: [PC7 Description: [ Interface Name: [Port 1 Description: [ Connection source: [All office (IPv4 Agg)]
Name Created Modified #Int Description PC1 06/15/2003 06/15/2003 1 PC2 06/15/2003 06/15/2003 1	Point-to-Point Pool Use /31 address* *Select this option only if the device to be connected supports /31 network addressing. /608
PC4         08/15/2003 08/15/2003 1           PC3         08/15/2003 08/15/2003 1           PC5         08/15/2003 08/15/2003 1           PC6         08/16/2003 08/16/2003 1	Add Reset Cancel
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Fig 16

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeranie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 18 of 37

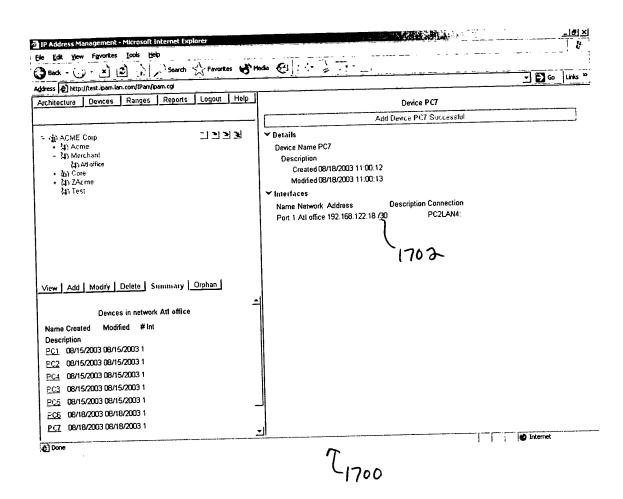


Fig 17

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 19 of 37

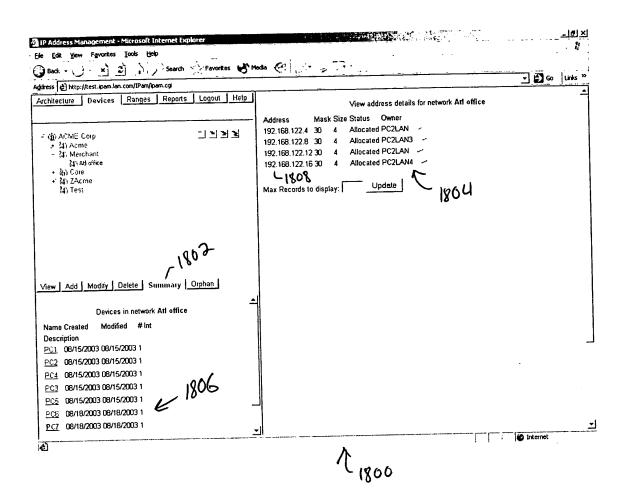


Fig 18

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 20 of 37

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IP Address Management - Microsoft Inte	ernet Explorer
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🖻 🐴 Merchant	192.168.122.8 30 4 Allocated PC2LAN3 ~~
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æi(a)Cone æi(4)ZAcme	192.168.122.16 30 4 Allocated PC2LAN4
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Name Created Modified # Int	Address Mask Size Status Device Interface
Description PC1 08/15/2003 08/15/2003 1	192.168.122.16 32 1 Reserved unusable
	192.168.122.17 32 1 Free
	192.168.122.18.32 1 Allocated PC7 Port 1
PC4 08/15/2003 08/15/2003 1 PC3 08/15/2003 08/15/2003 1 <b>1966</b>	192.168.122.19 32 1 Reserved unusable
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Fig 19

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 21 of 37

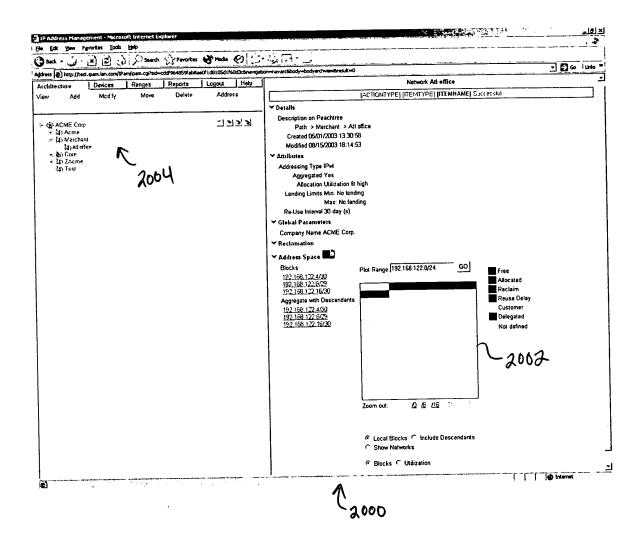


Fig 20

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 22 of 37

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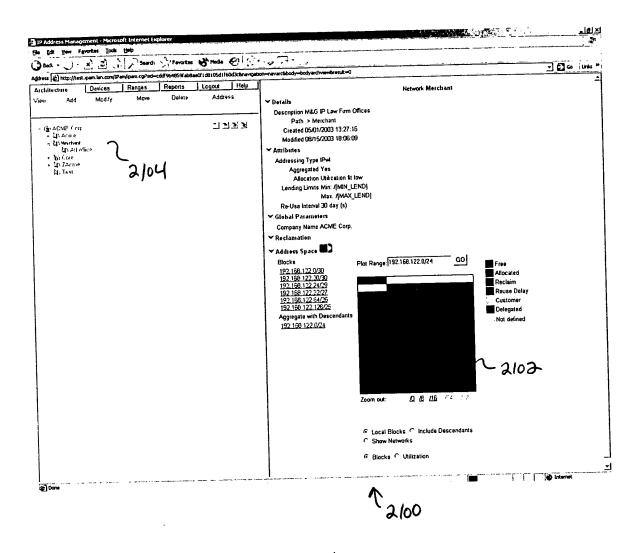


Fig 21

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 23 of 37

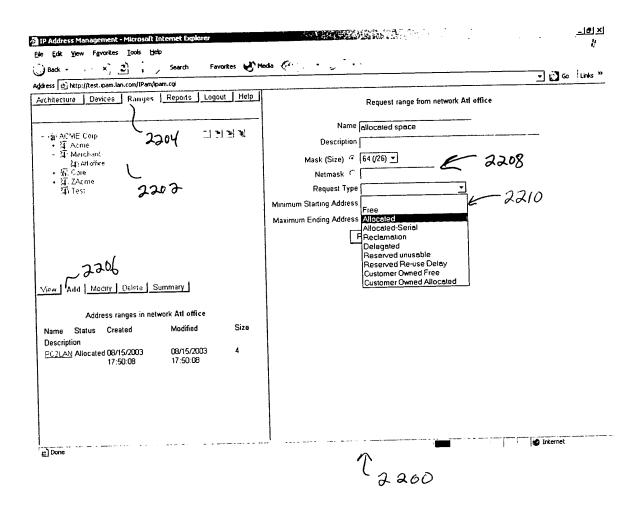


Fig 22

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee. Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 24 of 37

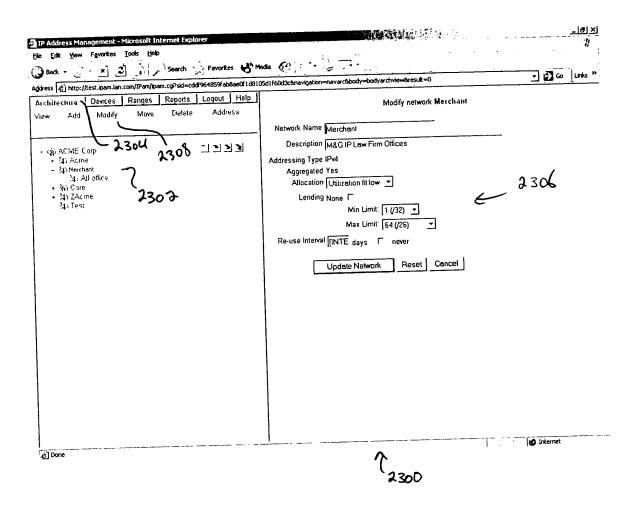
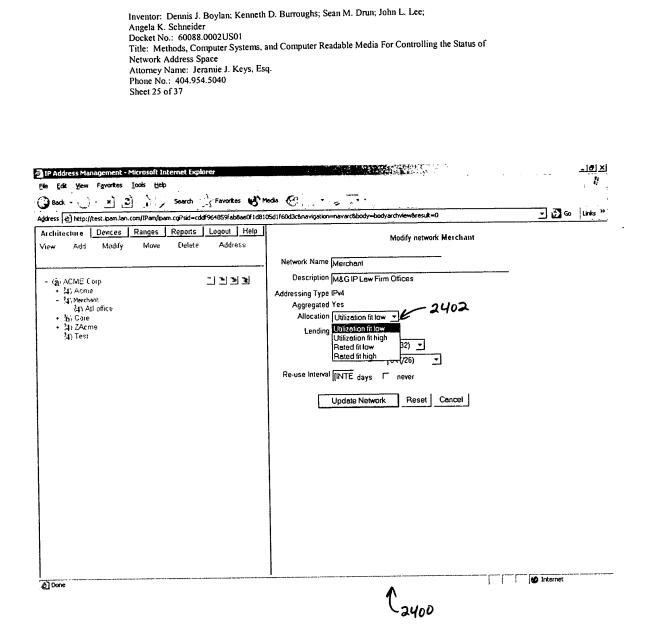


Fig 23

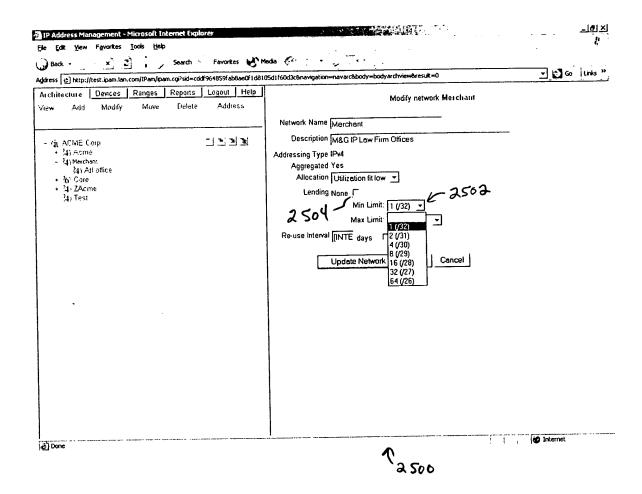


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**Fig 24** 

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 26 of 37

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**Fig 25** 

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 27 of 37

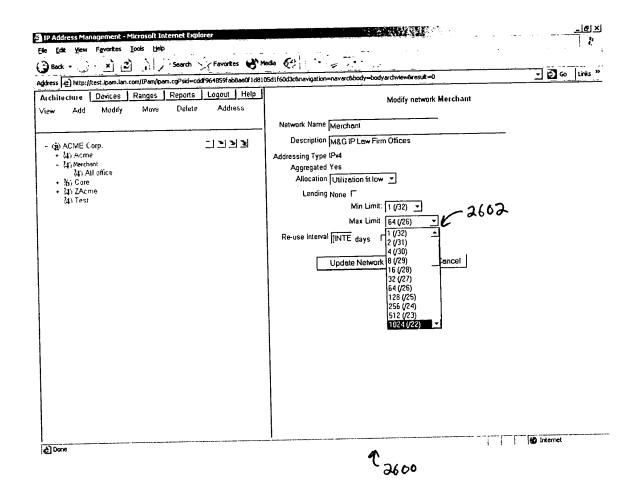
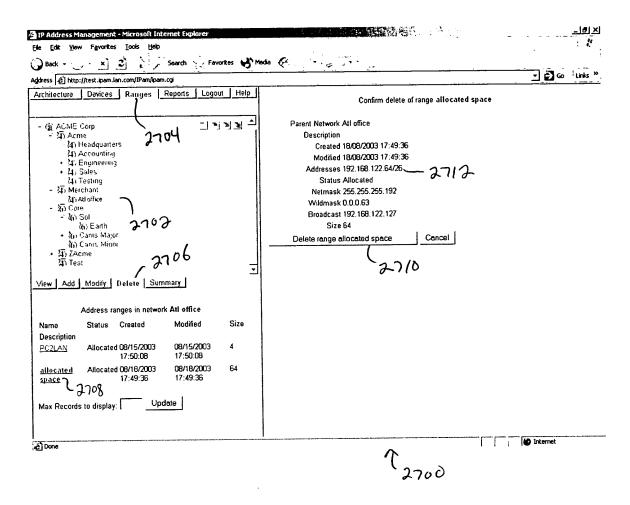


Fig 26

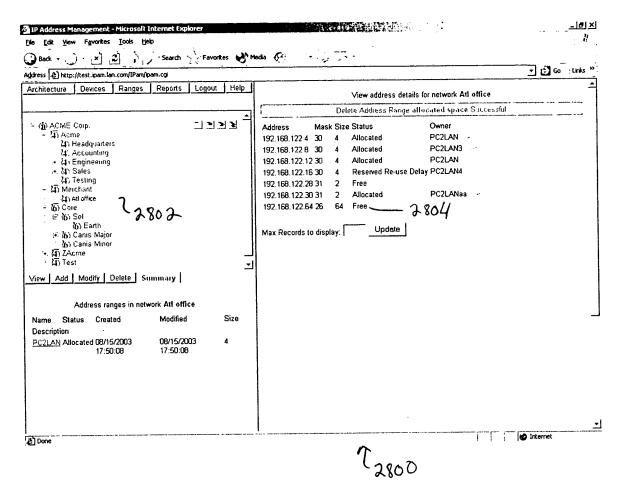
Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 28 of 37

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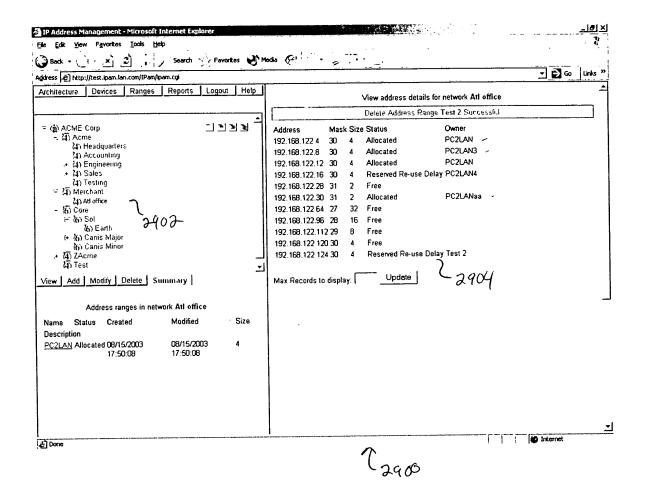
**Fig 27** 

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 29 of 37



**Fig 28** 

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 30 of 37



**Fig 29** 

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 31 of 37

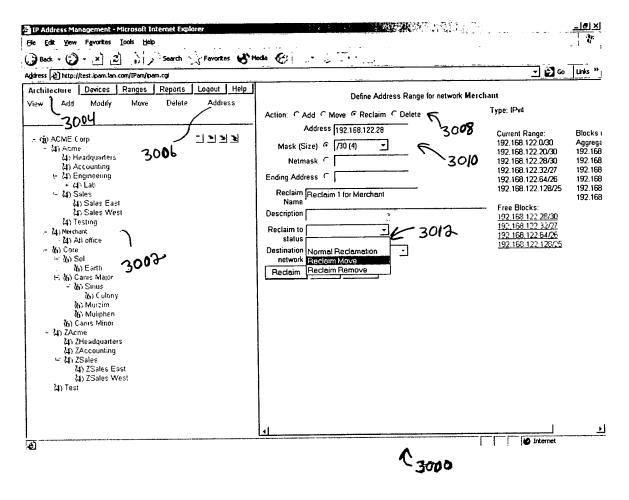


Fig 30

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 32 of 37

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Description PC2LAN allocated space	Status Created Allocated 08/15/2003 17:50:08 Allocated 08/19/2003 14:36:33	08/15/2003 17:50:08 08/19/2003 14:35:33	4		net

Fig 31

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods. Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 33 of 37

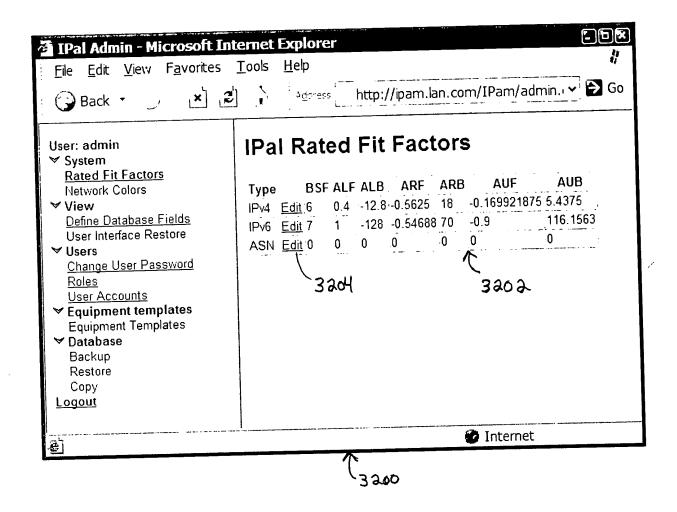


Fig 32

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 34 of 37

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<u>ie E</u> dt	<u>V</u> iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp	$\mathcal{O}^{\mathbb{M}}$	2	≫ .≜ <u>d</u> dress	• 🖸 Go 📕
Pal F	acto	r Wiza	ra					
ne rating fa	actors de	etermine whe	n one blo	ck will be	chosen over and	other favorable but	t larger block.	
IPv4 v	-321	Add	ress Type					
anning to t	ha child	unloss they	are much	larger the	an the request. O	eita Lend is the	rk. These blocks a difference in bits b egate with any chil	erween a large
O Yes @						itire address rang		
2		. 1	at is delta	_Lend for	the smallest blo	icks?		
0	-3	<b>218</b> Wh	at is delta	_Lend for	the largest bloc	ks?		
are reserve the differer	ed in favo nce in bit	r of blocks t s between a	hat will no large non	t aggrega -aggregat	ite, unless the no te block and a sr	naller block that	lend or allocation k is much larger. would aggregate v	uella_Reserve is
O Yes (	-					ntire address rang	ge?	
3		azz wi	at is delta	Reserve	e for the smallest	blocks?		
0	-3	aau wi	nat is delta	_Reserve	e for the largest b	locks?		
Blocks that of its addr	at will ag	gregate with	a child ne	etwork ca	n be reserved mo	ore strongly if the	child network has	high utilization
• Yes	•	,						
		34000 00	es child u	tilization	affect reservation	?		
							ge?	
O Yes	⊙ No-	3228 Is	the effect	constant	throughout the e	ntire address ran		ks?
O Yes (	⊙ No-	3228 Is	the effect	constant arger is d	throughout the e elta-reserve at 10	ntire address ran 10% utilization for	the smallest bloc	
⊖ Yes	⊙ No-	3228 is	the effect w much la w much la	constant arger is d arger is d	throughout the e elta-reserve at 10	ntire address ran 10% utilization for		
O Yes (	⊙ № 3 3	3228 Is	the effect w much la w much la	constant arger is d arger is d	throughout the e elta-reserve at 10 elta-reserve at 10 <b>2 338</b>	ntire address ran 10% utilization for 10% utilization for	the smallest bloc	s? Agg with child, 100% util
O Yes ( 1 0 Factor	⊙ № -3 -3 s	3228 Is 230 Ho 232 Ho	the effect ow much la ow much la Block	constant arger is d arger is d	throughout the e elta-reserve at 10 elta-reserve at 10 33338 Agg with A	ntire address ran 10% utilization for 10% utilization for 10% utilization for 10% utilization for	the smallest block the largest block Agg with child, 50% util 20.718	s? Agg with child, 100% util 23.437
O Yes ( 1 0	⊙ No 3 3 S	3228 Is 230 Ho 232 Ho	the effect w much la w much la Block Mask	constant arger is d arger is d 3 	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower	ntire address ran 10% utilization for 20% utilization for 20% util 20% util 18.000 23.437	the smallest block r the largest block Agg with child, 50% util 20.718 26.071	s? Agg with child, 100% util 23.437 28.705
O Yes ( 1 0 Factor	⊙ № -3 -3 s	3228 Is 230 Ho 232 Ho	the effect w much la w much la Block Mask 32	constant arger is d arger is d <b>3</b> C No Agg 0.000 6.000 12.000	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000	ntire address ran 10% utilization for 20% utilization for 20% utili 20% util 18.000 23.437 28.875	Agg with child, 50% util 20.718 26.071 31.423	s? Agg with child, 100% util 23.437 28.705 33.972
O Yes ( 1 0 Factor BSF	⊙ No 3 3 S	3228 Is 230 Ho 232 Ho .3234	the effect w much la w much la Block Mask 32 31 30 29	constant arger is d arger is d S C	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312	the smallest block the largest block Agg with child, 50% util 20.718 26.071 31.423 36.776	s? Agg with child, 100% util 23.437 28.705 33.972 39.240
O Yes O T D Factor BSF ALF ALB	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12</li> </ul>	3228 Is 230 Ha 232 Ha 322 Ha .3234	the effect w much la Block Mask 32 31 30 29 28	constant arger is d arger is d <b>3</b> <b>4</b> <b>5</b> <b>6</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b> <b>0</b>	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750	the smallest block the largest block <b>Agg with child,</b> <b>50% util</b> 20.718 26.071 31.423 36.776 42.128	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507
C Yes C 1 0 Factor BSF ALF ALB ARF	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12.</li> <li>-12.</li> <li>-0.5</li> </ul>	3228 Is 230 Ha 232 Ha 322 Ha .3234	the effect w much la Block Mask 32 31 30 29 28 27	constant arger is d arger is d <b>3 C C C C C C C C C C</b>	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200	ntire address ran 10% utilization for 10% utilization for 10% utilization for 10% util 18.000 23.437 28.875 34.312 39.750 45.187	the smallest block the largest block <b>Agg with child,</b> <b>50% util</b> 20.718 26.071 31.423 36.776 42.128 47.481	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775
O Yes O T D Factor BSF ALF ALB	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12</li> </ul>	3228 Is 230 Ha 232 Ha 322 Ha .3234	the effect w much la bw much la Block Mask 32 31 30 29 28 27 26	constant arger is d arger is d <b>3 C</b> <b>0.000</b> 6.000 12.000 18.000 24.000 30.000 36.000	throughout the e elta-reserve at 10 elta-reserve at 10 3238 Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600	ntire address ran 00% utilization for 00% utilization for 00% utilization for 0% util 18.000 23.437 28.875 34.312 39.750 45.187 50.625	the smallest block r the largest block <b>Agg with child,</b> <b>50% util</b> 20.718 26.071 31.423 36.776 42.128 47.481 52.833	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042
C Yes C 1 0 Factor BSF ALF ALB ARF	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>-6</li> <li>0.4</li> <li< td=""><td>3228 Is 230 Ha 232 Ha 322 Ha .3234</td><td>the effect w much la bw much la Block Mask 32 31 30 29 28 27 26 25</td><td>constant arger is d arger is d S C</td><td>throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000</td><td>ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062</td><td>the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186</td><td>s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310</td></li<></ul>	3228 Is 230 Ha 232 Ha 322 Ha .3234	the effect w much la bw much la Block Mask 32 31 30 29 28 27 26 25	constant arger is d arger is d S C	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310
Yes T Pactor BSF ALF ALB ARF ARB AUF	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-12.</li> <li>-13.</li> <li>-14.</li> <li>-15.</li> <li>-14.</li> <li>-15.</li> <li>-14.</li> <li>-15.</li> <li>-14.</li> <li>-14</li></ul>	3228 Is 230 Ho 232 Ho 322 Ho 3234 69921875	the effect w much la w much la Block Mask 32 31 30 29 28 27 26 25 24	constant arger is d arger is d S C	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578
Yes  T  Factor  BSF  ALF  ALB  ARF  ARB  AUF  AUB	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12</li> <li>-0.5</li> <li>18</li> <li>-0.1</li> <li>5.4</li> </ul>	3228 Is 230 Ho 232 Ho 232 Ho 232 Ho 232 69921875 375	the effect w much la bw much la Block Mask 32 31 30 29 28 27 26 25 24 23	constant arger is d arger is d S C	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845
Yes  T  Factor  BSF  ALF  ALB  ARF  ARB  AUF  AUB  Sho	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12.</li> <li>0.5</li> <li>18</li> <li>0.1</li> <li>5.43</li> <li>w Rating</li> </ul>	3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375	the effect w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22	constant arger is d arger is d 3 C	throughout the e elta-reserve at 10 additional and a serve at 10 additional additional and a serve at 10 additional additional additionadditional additionadditaditional additionadditional additi	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113
Yes  T  Factor  BSF  ALF  ALB  ARF  ARB  AUF  AUB  Sho	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12</li> <li>-0.5</li> <li>18</li> <li>-0.1</li> <li>5.4</li> </ul>	3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375	the effect w much la bw much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21	constant arger is d arger is d 3 C	throughout the e etta-reserve at 10 additional and a serve at 10 additional additional and a serve at 10 additional additional additionadditional additional additional addite additional addi	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375 77.812	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380
Yes  T  Factor  BSF  ALF  ALB  ARF  ARB  AUF  AUB  Sho	<ul> <li>No -</li> <li>-3</li> <li< td=""><td>3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375</td><td>the effect w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20</td><td>constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 48.000 54.000 60.000 66.000 72.000</td><td>throughout the e etta-reserve at 10 etta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000</td><td>ntire address ran 10% utilization for 10% utilization for 10% utilization for 18,000 23,437 28,875 34,312 39,750 45,187 50,625 56,062 61,500 66,937 72,375 77,812 83,250</td><td>the smallest block r the largest block <b>Agg with child,</b> <b>50% util</b> 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596</td><td>s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648</td></li<></ul>	3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375	the effect w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20	constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 48.000 54.000 60.000 66.000 72.000	throughout the e etta-reserve at 10 etta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18,000 23,437 28,875 34,312 39,750 45,187 50,625 56,062 61,500 66,937 72,375 77,812 83,250	the smallest block r the largest block <b>Agg with child,</b> <b>50% util</b> 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648
Yes  T  Factor  BSF  ALF  ALB  ARF  ARB  AUF  AUB  Clea	<ul> <li>No -</li> <li>-3</li> <li< td=""><td>3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375</td><td>the effect w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19</td><td>constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 42.000 48.000 54.000 60.000 66.000 72.000 78.000</td><td>throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000 70.400</td><td>ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375 77.812</td><td>the smallest block r the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949</td><td>s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916</td></li<></ul>	3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375	the effect w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19	constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 42.000 48.000 54.000 60.000 66.000 72.000 78.000	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000 70.400	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375 77.812	the smallest block r the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916
Yes ( 1 0 Factor BSF ALF ALB ARF ARB AUF AUB Cleat Reset	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12.</li> <li>-3</li> <li>6</li> <li>0.4</li> <li>-3</li> <li>-4</li> <l< td=""><td>3228 Is 232 Ho 232 Ho 232 Ho 332 Ho 332 Ho 69921875 375 15 15</td><td>the effect w much la w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18</td><td>constant arger is d arger is d S C</td><td>throughout the e etta-reserve at 10 etta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000</td><td>ntire address ran 10% utilization for 10% utilization for 10% utilization for 18,000 23,437 28,875 34,312 39,750 45,187 50,625 56,062 61,500 66,937 72,375 77,812 83,250 88,687</td><td>the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949 90.301 95.654</td><td>s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916 97.183</td></l<></ul>	3228 Is 232 Ho 232 Ho 232 Ho 332 Ho 332 Ho 69921875 375 15 15	the effect w much la w much la Block Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	constant arger is d arger is d S C	throughout the e etta-reserve at 10 etta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18,000 23,437 28,875 34,312 39,750 45,187 50,625 56,062 61,500 66,937 72,375 77,812 83,250 88,687	the smallest block the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949 90.301 95.654	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916 97.183
Yes ( 1 0 Factor BSF ALF ALB ARF ARB AUF AUB Clea	<ul> <li>No -</li> <li>-3</li> <li>-3</li> <li>-3</li> <li>5</li> <li>6</li> <li>0.4</li> <li>-12.</li> <li>-3</li> <li>6</li> <li>0.4</li> <li>-3</li> <li>-4</li> <l< td=""><td>3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375</td><td>the effect w much la bw much la Block M Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17</td><td>constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 42.000 48.000 54.000 60.000 66.000 72.000 78.000</td><td>throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000 70.400 76.800 83.200</td><td>ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375 77.812 83.250 88.687 94.125</td><td>the smallest block r the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949 90.301 95.654 101.006 106.359</td><td>s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916 97.183 102.45</td></l<></ul>	3228 Is 230 Ho 232 Ho 232 Ho 332 Ho 332 Ho 6921875 69921875 375	the effect w much la bw much la Block M Mask 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	constant arger is d arger is d 3 C 0.000 6.000 12.000 18.000 24.000 30.000 36.000 42.000 48.000 54.000 60.000 66.000 72.000 78.000	throughout the e elta-reserve at 10 elta-reserve at 10 <b>3238</b> Agg with A borrower -12.800 -6.400 0.000 6.400 12.800 19.200 25.600 32.000 38.400 44.800 51.200 57.600 64.000 70.400 76.800 83.200	ntire address ran 10% utilization for 10% utilization for 10% utilization for 18.000 23.437 28.875 34.312 39.750 45.187 50.625 56.062 61.500 66.937 72.375 77.812 83.250 88.687 94.125	the smallest block r the largest block 50% util 20.718 26.071 31.423 36.776 42.128 47.481 52.833 58.186 63.539 68.891 74.244 79.596 84.949 90.301 95.654 101.006 106.359	s? Agg with child, 100% util 23.437 28.705 33.972 39.240 44.507 49.775 55.042 60.310 65.578 70.845 76.113 81.380 86.648 91.916 97.183 102.45

Fig 32A

Inventor: Dennis J. Boylan; Kenneth D. Burroughs: Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 35 of 37

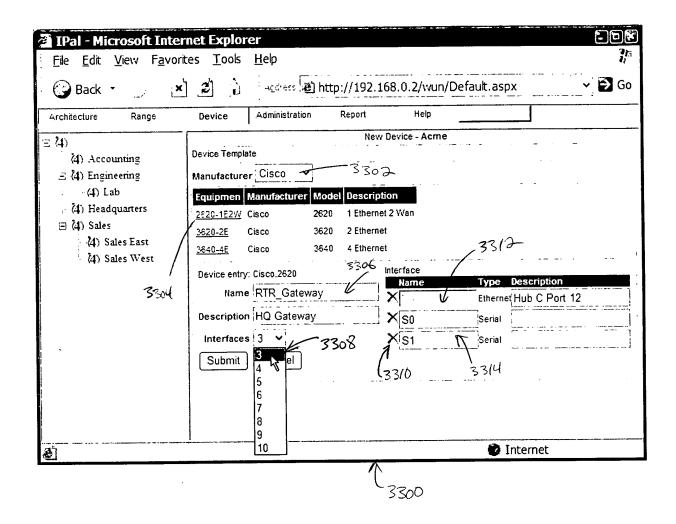


Fig 33

Inventor: Dennis J. Boylan; Kenneth D. Burroughs; Sean M. Drun; John L. Lee; Angela K. Schneider Docket No.: 60088.0002US01 Title: Methods, Computer Systems, and Computer Readable Media For Controlling the Status of Network Address Space Attorney Name: Jeramie J. Keys, Esq. Phone No.: 404.954.5040 Sheet 36 of 37

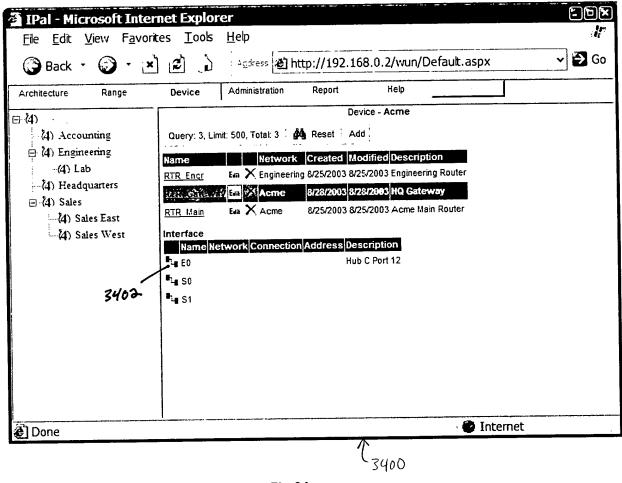


Fig 34

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